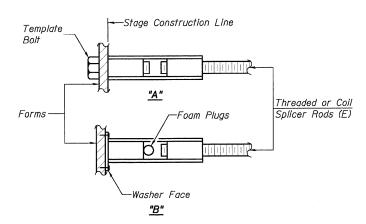


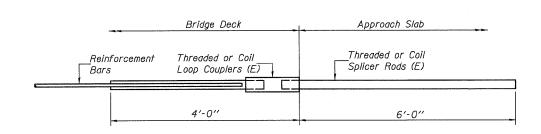
**Home Hoy Nuts conforming to ASTM

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

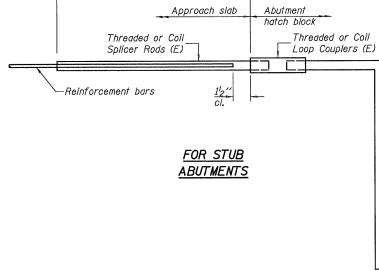


INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.



<u>FOR INTEGRAL OR</u> <u>SEMI-INTEGRAL ABUTMENTS</u>

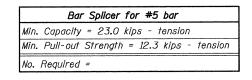


6'-0"

Bar Splicer for #5 bar					
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 12.3	kips -	tension
No.	Required	=			

DESIGNED	K.M.M.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	В.G.Н.

BSD-1 10-1-08



NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum **Pull-out Strength = 0.66 x fy x A₁
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

9'-0"

 A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

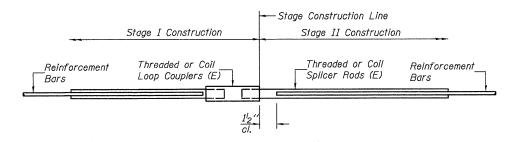
#11

reinforcement bars.

BAR SPLICER ASSEMBLIES					
	Splicer Rod or Dowel Bar Length	Strength Requirements			
Bar Size to be Spliced		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5″	45.1	23.8		
#8	4′-6′′	58.9	31.3		
#9	5′-9″	75.0	39.6		
#10	7′-3′′	95.0	50.3		

117.4

61.8



STANDARD

Bar Size	No. Assemblies Required	Location		
#4	8	North Abutment		
#5	6	North Abutment		
#7	8	North Abutment		
#5	6	Pier 1 Pier 1		
#7	8			
#5	6	Pier 2		
#7	8	Pier 2		
#4	8	South Abutment		
#5	6	South Abutment		
#7	8	South Abutment		

BAR SPLICER ASSEMBLY DETAILS

			· · · · · · · · · · · · · · · · · · ·					
SHE	SHFFT NO. 13	F.A.S.	.S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
	SHEET NO. 15	783	83 02-00074-00-BR		BOND	25	20	
	14 SHEETS		S.N. 003-3050		CONTRACT NO. 97446			
		FED. RO	DAD DIST. NO.	ILLINOIS FED. AI	NOIS FED. AID PROJECT			

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